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### 1 [Modeling cryptographic properties of voice and voice-based entity authentication](#)



Giovanni Di Crescenzo, Munir Cochinwala, Hyong S. Shim

November 2007 DIM '07: Proceedings of the 2007 ACM workshop on Digital identity management

Publisher: ACM

Full text available: Pdf (230.76 KB)

[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 193, Citation Count: 0

Strong and/or multi-factor entity authentication protocols are of crucial importance in building secure identity management architectures. Popular mechanisms to achieve these types of entity authentication are biometrics, and, in particular, voice, ...

Keywords: biometrics, entity authentication, modeling human factors, voice

### 2 [Audio-visual multimodal fusion for biometric person authentication and liveness verification](#)

Girija Chetty, Michael Wagner

April 2006 MMUI '05: Proceedings of the 2005 NICTA-HCSNet Multimodal User Interaction Workshop - Volume 57, Volume 57

Publisher: Australian Computer Society, Inc.

Full text available: Pdf (719.65 KB)

[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 152, Citation Count: 0

In this paper we propose a multimodal fusion framework based on novel face-voice fusion technique for biometric person authentication and liveness verification. Checking liveness guards the system against spoof/replay attacks by ensuring that the biometric ...

Keywords: biometric authentication, liveness verification, multimodal fusion

### 3 [Fast pre-authentication based on proactive key distribution for 802.11 infrastructure network](#)



Mohamed Kassab, Abdelfettah Belghith, Jean-Marie Bonnin, Sahbi Sassi

October 2005 WMuNeP '05: Proceedings of the 1st ACM workshop on Wireless multimedia network performance modeling

Publisher: ACM

Full text available: Pdf (398.42 KB)

[Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 193, Citation Count: 2

Recently, user mobility in wireless data networks is increasing because of the popularity of portable devices.

devices and the desire for voice and multimedia applications. These applications, however, require handoffs among base stations to maintain the ...

Keywords: IAPP, IEEE 802.11i, WiFi, handover, pre-authentication, re-authentication

#### 4 [On the security of wireless network access with enhancements](#)



Lein Harn, Wen-Jung Hsin

September 2003 WiSe '03: Proceedings of the 2nd ACM workshop on Wireless security

Publisher: ACM

Full text available: Pdf (263.94 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 256, Citation Count: 1

The security of the current 3G wireless protocols addresses the problems faced by the 2G system in addition to fulfilling the higher 3G security requirements mandated from operating in IP network as well as voice networks. However, the approach adopted ...

Keywords: 3G mobile network security and authentication, security

#### 5 [Efficient fingerprint-based user authentication for embedded systems](#)



Pallav Gupta, Srivaths Ravi, Anand Raghunathan, Niraj K. Jha

June 2005 DAC '05: Proceedings of the 42nd annual conference on Design automation

Publisher: ACM

Full text available: Pdf (1.07 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 176, Citation Count: 2

User authentication, which refers to the process of verifying the identity of a user, is becoming an important security requirement in various embedded ...

Keywords: embedded systems, extensible processors, fingerprint, user authentication

#### 6 [Provably secure browser-based user-aware mutual authentication over TLS](#)



Sebastian Gajek, Mark Manulis, Ahmad-Reza Sadeghi, Jörg Schwenk

March 2008 ASI ACCS '08: Proceedings of the 2008 ACM symposium on Information, computer and communications security

Publisher: ACM

Full text available: Pdf (410.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 92, Citation Count: 0

The standard solution for user authentication on the Web is to establish a TLS-based secure channel over a server authenticated mode and run a protocol on top of TLS where the user enters a password in HTML form. However, as many studies point out, the ...

Keywords: TLS, browser-based protocols, phishing, user authentication

#### 7 [A new lip feature representation method for video-based bimodal authentication](#)

Hua Ouyang, Tan Lee

April 2006 MMUI '05: Proceedings of the 2005 NICTA-HCSNet Multimodal User Interaction Workshop - Volume 57, Volume 57

Publisher: Australian Computer Society, Inc.

Full text available: Pdf (322.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 47, Citation Count: 0

As the low-cost video transmission becomes popular, video based bimodal (audio and visual) authentication has great potential in various applications that require access control. It is especially useful for hand-held terminals, which are often used under ...

Keywords: biometric authentication, feature representation, lips, multimodal

# 8 Haptic: the new biometrics-embedded media to recognizing and quantifying human pattern



Mauricio Orozco Trujillo, Ismail Shakra, Abdulmotaleb El Saddik

November 2005 MULTIMEDIA '05: Proceedings of the 13th annual ACM international conference on Multimedia

Publisher: ACM

Full text available: Pdf (276.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 107, Citation Count: 0

Authentication for the purposes of security has taken giant strides since the introduction of Bior to help identify people by their behavioral and physiological features. From organizations and corporations to educational institutes, electronic ...

Keywords: biometrics, haptic systems, haptic-task

# 9 DNA smart card for financial transactions



Sofia Gleni, Panagiotis Petratos

September 2004 Crossroads, Volume 11 Issue 1

Publisher: ACM

Full text available: Pdf (952.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 56, Citation Count: 0

In this paper, a secure environment for electronic commerce is introduced. The environment is formed via a synthesis of biometrics consumer authentication with a security token. Such a token is a smart card containing cryptographic keys and a cryptographic ...

# 10 Distributed PIN verification scheme for improving security of mobile devices

Jian Tang, Vagan Terziyan, Jari Veijalainen

April 2003 Mobile Networks and Applications, Volume 8 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: Pdf (298.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 235, Citation Count: 2

The main driving force for the rapid acceptance rate of small sized mobile devices is the capability to perform e-commerce transactions at any time and at any place, especially while on the move. There are, however, also weaknesses of this type of e-commerce, ...

Keywords: measure, mobile device, probability, risks, security, uncover

# 11 Session and media signaling for IPTV via IMS

Christian Riede, Adel Al-Hezmi, Thomas Magedanz

February 2008 MOBILEWARE '08: Proceedings of the 1st international conference on MOBILE Wireless MiddleWARE, Operating Systems, and Applications

Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)

Full text available:  Pdf (495.16 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 183, Citation Count: 0

As the IMS provides session establishment, QoS parameter negotiation, authentication and access it is an overlay architecture well qualified for session signaling concerning IPTV scenarios. The management of the signaling can be integrated as an ...


Keywords: IMS, IPTV, RTSP, SIP, media signaling, session signaling

12 [ACM SIGCOMM computer communication review](#)

 Andrew T. Campbell, Mischa Schwartz

October 2001 ACM SIGCOMM Computer Communication Review, Volume 31 Issue 5

Publisher: ACM


Full text available:  Pdf (376.25 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 132, Citation Count: 0

At some point in the future, how far out we do not exactly know, wireless access to the Internet outstrip all other forms of access bringing the freedom of mobility to the way we access the web communicate with each other, and conduct business. ...

13 [Proceedings of the 6th ACM SIGCOMM workshop on Network and system support for games](#)

 Grenville Armitage

September 2007 proceeding


Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0


The NetGames workshop brings together researchers and developers from academia and industry to present new research in understanding networked games and in enabling the next generation of games. Submissions are sought in any area related to networked games. ...

14 [Use Your Illusion: secure authentication usable anywhere](#)

 Eiji Hayashi, Rachna Dhamija, Nicolas Christin, Adrian Perrig

July 2008 SOUPS '08: Proceedings of the 4th symposium on Usable privacy and security

Publisher: ACM

Full text available:  Pdf (234.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 29, Citation Count: 0

In this paper, we propose and evaluate Use Your Illusion, a novel mechanism for user authentication that is secure and usable regardless of the size of the device on which it is used. Our system relies on the human ability to recognize a degraded version ...

Keywords: distortion, graphical passwords, social engineering

15 [Formal analysis of card-based payment systems in mobile devices](#)

Vijayakrishnan Pasupathinathan, Josef Pieprzyk, Huaxiong Wang, Joo Yeon Cho

January 2006 ACSW Frontiers '06: Proceedings of the 2006 Australasian workshops on Groupware, computing and e-research - Volume 54, Volume 54

Publisher: Australian Computer Society, Inc.

Full text available:  Pdf (169.95 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 244, Citation Count: 0

To provide card holder authentication while they are conducting an electronic transaction using i devices, VISA and MasterCard independently proposed two electronic payment protocols: Visa 3 Secure and MasterCard Secure Code. The protocols use ...

Keywords: card-based systems, electronic payments, formal verification, mobile payment

## 16 [The development of destination-specific biometric authentication](#)



Andrew R. Mark

April 2000 CFP '00: Proceedings of the tenth conference on Computers, freedom and privacy: cha the assumptions

Publisher: ACM

Full text available:  Pdf (44.03 KB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 33, Citation Count: 0

## 17 ["It's like if you opened someone else's letter": user perceived privacy and social practices w](#)




SMS communication

Jonna Häkkinä, Craig Chatfield

September 2005 MobileHCI '05: Proceedings of the 7th international conference on Human comput interaction with mobile devices & services

Publisher: ACM

Full text available:  Pdf (217.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 86, Citation Count: 7

This paper presents a study examining users' perceptions of privacy relating to mobile phone us and more specifically on the use of short message service (SMS) messages. The study also look reasons for mobile phone ownership, and user perceptions ...

Keywords: messaging, mobile communications, privacy


## 18 [Fast authentication methods for handovers between IEEE 802.11 wireless LANs](#)



M. S. Bargh, R. J. Hulsebosch, E. H. Eertink, A. Prasad, H. Wang, P. Schoo

October 2004 WMASH '04: Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available:  Pdf (257.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 326, Citation Count: 2

Improving authentication delay is a key issue for achieving seamless handovers across networks domains. This paper presents an overview of fast authentication methods when roaming within i across IEEE 802.11 Wireless-LANs. Besides this overview, ...

Keywords: WLAN, authentication, handover, inter/intra-domain, seamless

## 19 [Designing a distributed access control processor for network services on the Web](#)



Reiner Kraft

November 2002 XMLSEC '02: Proceedings of the 2002 ACM workshop on XML security

Publisher: ACM

Full text available: Pdf (301.14 KB)

Additional Information: full citation, abstract, references, cited by, index term

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 204, Citation Count: 4

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and may represent a step towards the semantic Web. However, security is ...

Keywords: Web services, XML, access control, security

## 20 [Towards robust person recognition on handheld devices using face and speaker identification technologies](#)



Timothy J. Hazen, Eugene Weinstein, Alex Park

November 2003 I CMI '03: Proceedings of the 5th international conference on Multimodal interfaces

Publisher: ACM

Full text available: Pdf (118.84 KB)

Additional Information: full citation, abstract, references, cited by, index term

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 67, Citation Count: 1

Most face and speaker identification techniques are tested on data collected in controlled environments using high quality cameras and microphones. However, the use of these technologies in variable environments and with the help of the inexpensive sound ...

Keywords: face identification, handheld devices, multi-biometric interfaces, speaker identification

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